CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.10/TGM/CEMENT/2013-14

Date: 23.09.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. T.G. Manjaunath,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
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Job No.: CTCE/BBMP/W.No.10/TGM/SAND/2013-14 : 23.09.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. T.G. Manjaunath,** Contractor, Bangalore.

Name of Work : Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013

Date of Testing : 23.09.2013

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	46	4.60	4.60	95.4	90-100
2.36	159	15.90	20.50	79.5	75-100
1.18	196	19.60	40.10	59.9	55-90
600 Micron	166	16.60	56.70	43.3	35-59
300 Micron	251	25.10	81.80	18.2	8-30
150 Micron	157	15.70	97.50	2.5	0-10

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Job No.: CTCE/BBMP/W.No.10/TGM/AGG/2013-14 : 23.09.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. T.G. Manjaunath,** Contractor, Bangalore.

Name of Work : Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013

Date of Testing : 23.09.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	360	3.60	3.60	96.40	95-100
20	6050	60.50	64.10	35.90	30-70
10	2450	24.50	88.60	11.40	10-35
4.75	900	9.00	97.60	2.40	0-5

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Job No.: CTCE/BBMP/W.No.10/TGM/STEEL/2013-14 25.09.013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.G. Manjaunath,** Contractor, Bangalore.
Name of the Work	:	Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013
Date of Test	:	25.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/TGM/STEEL/2013-14 25.09.013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.G. Manjaunath,** Contractor, Bangalore.
Name of the Work	:	Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013
Date of Test	:	25.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/TGM/CUBE/2013-14 28.10.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. T.G. Manjaunath,** Contractor, Bangalore.
Name of the work	: Construction of CC road and RCC drains at Sriramaiah layout Millennium School back side in Ward No.10 Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-Proc/(4570)/WO/433 /2012-13 Dated: 16.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2013	28.10.2013	8.152	479.5	21.31
2	30.09.2013	28.10.2013	8.239	496.3	22.06
3	30.09.2013	28.10.2013	8.365	512.3	22.77

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